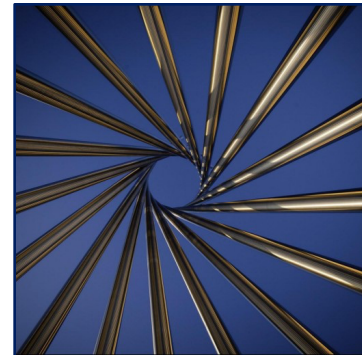




art news

Kyle J. Knoepfel
art stakeholders meeting
7 September 2017



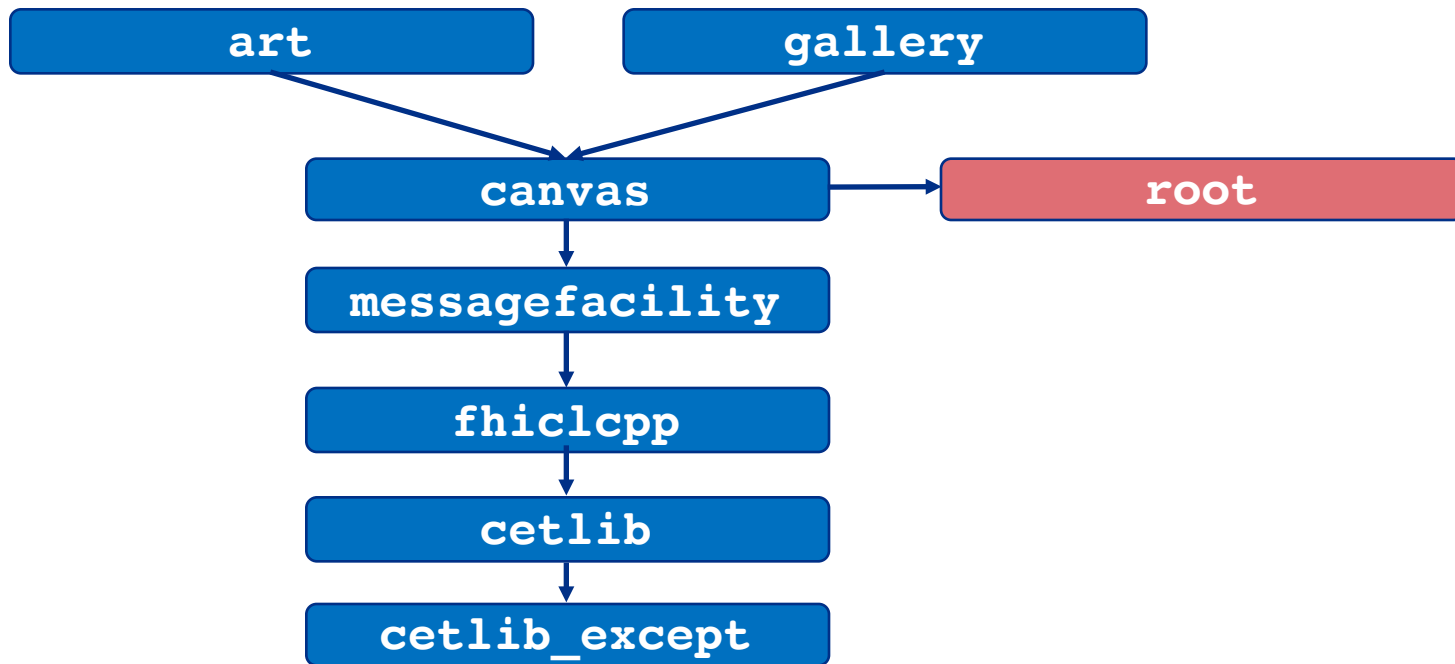
Discussions about multi-threading with the experiments/projects

- Next week (probably Thursday, at 1 pm), we will have our first discussion about multi-threaded *art*.
- For the first meeting:
 - Motivation for a multi-threaded *art*
 - Multi-threading concepts
 - *art*'s approach toward implementing it

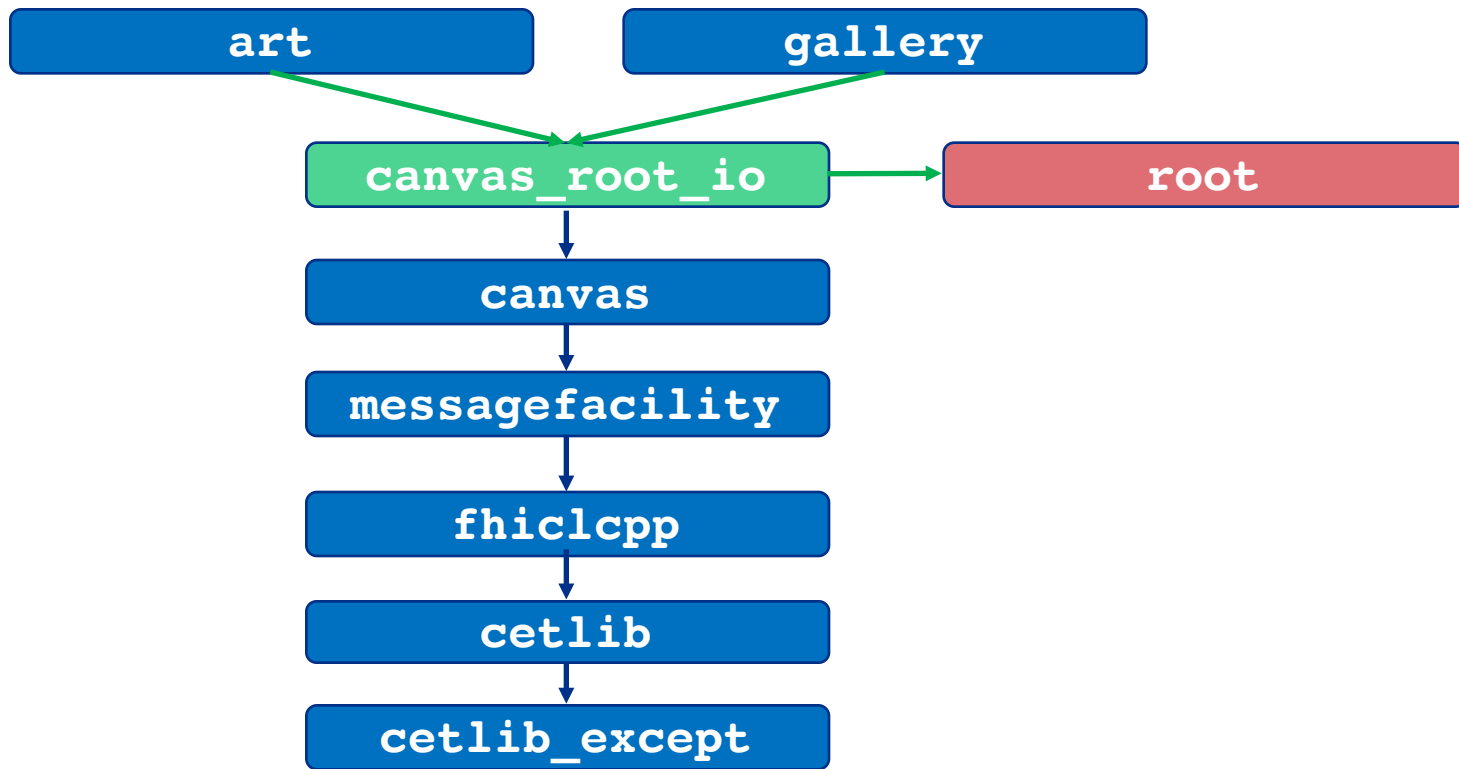
Moving the ROOT dependency

- In the past, ROOT has been an underlying product for the *art* package, even though the core functionality of *art* does not depend on it.
- Users rely on ROOT through:
 - `RootInput` *art* source
 - `RootOutput` *art* module
 - `TFileService` *art* service
 - Their own use of ROOT in *art* modules
 - etc.
- This coupling to ROOT has:
 - made it difficult to explore the use of *art* in non-ROOT contexts
 - introduced thread-safety issues that can be a limitation to attainable parallelism
- We have been exploring ways to decouple the ROOT dependency in a way that allows users to retain the ROOT functionality where needed.

art dependencies (current)



art dependencies (proposed—no user visible changes)



art dependencies (proposed—some user visible changes)

